

0590
12/0

#12

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/991,470

DATE: 12/18/2001

TIME: 16:53:39

Input Set : N:\Crf3\RULE60\09991470.raw

Output Set: N:\CRF3\12182001\I991470.raw

1 <110> APPLICANT: Ruey S. Liou
2 <120> TITLE OF INVENTION: ANTI-IGE GENE THERAPY
3 <130> FILE REFERENCE: 99-5
4 <140> CURRENT APPLICATION NUMBER: 09/991,470
5 <141> CURRENT FILING DATE: 2001-11-20
6 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/397,569
W--> 7 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-16
8 <160> NUMBER OF SEQ ID NOS: 27
9 <170> SOFTWARE: FastSEQ for Windows Version 4.0
11 <210> SEQ ID NO: 1
12 <211> LENGTH: 21
13 <212> TYPE: DNA
14 <213> ORGANISM: primer
15 <400> SEQUENCE: 1
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18 <210> SEQ ID NO: 2
19 <211> LENGTH: 19
20 <212> TYPE: DNA
21 <213> ORGANISM: primer
22 <400> SEQUENCE: 2
23 ctgagctcac ggtcaccag
25 <210> SEQ ID NO: 3
26 <211> LENGTH: 21
27 <212> TYPE: DNA
28 <213> ORGANISM: primer
29 <400> SEQUENCE: 3
30 tccgacatcc tgctgaccca g
32 <210> SEQ ID NO: 4
33 <211> LENGTH: 19
34 <212> TYPE: DNA
35 <213> ORGANISM: primer
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39 <210> SEQ ID NO: 5
40 <211> LENGTH: 85
41 <212> TYPE: DNA
42 <213> ORGANISM: primer
43 <400> SEQUENCE: 5
44 ccctgggtgac cgtgagctca ggtggcggtg gctcgggcgg tggtaggtcg ggtggcggcg
45 gatctgacat cctgctgacc cagag
47 <210> SEQ ID NO: 6
48 <211> LENGTH: 15
49 <212> TYPE: DNA
50 <213> ORGANISM: primer
51 <400> SEQUENCE: 6
52 ggggsggggs ggggs
54 <210> SEQ ID NO: 7

ENTERED

RAW SEQUENCE LISTING
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DATE: 12/18/2001
 TIME: 16:53:39

Input Set : N:\Crf3\RULE60\09991470.raw
 Output Set: N:\CRF3\12182001\I991470.raw

55 <211> LENGTH: 35	
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57 <213> ORGANISM: primer	
58 <400> SEQUENCE: 7	35
59 gcgcccagc cggcccaggt gcagctggtg cagag	
61 <210> SEQ ID NO: 8	
62 <211> LENGTH: 34	
63 <212> TYPE: DNA	
64 <213> ORGANISM: primer	
65 <400> SEQUENCE: 8	34
66 ctgcggccgc tttgatctcc accttggtgc cctg	
68 <210> SEQ ID NO: 9	
69 <211> LENGTH: 38	
70 <212> TYPE: DNA	
71 <213> ORGANISM: primer	
72 <400> SEQUENCE: 9	38
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75 <210> SEQ ID NO: 10	
76 <211> LENGTH: 33	
77 <212> TYPE: DNA	
78 <213> ORGANISM: primer	
79 <400> SEQUENCE: 10	33
80 cccgctcgag tcatttgatc tccaccttgg tgc	
82 <210> SEQ ID NO: 11	
83 <211> LENGTH: 34	
84 <212> TYPE: DNA	
85 <213> ORGANISM: primer	
86 <400> SEQUENCE: 11	34
87 tcccagatct aagcttgccg ccaccatgga ctgg	
89 <210> SEQ ID NO: 12	
90 <211> LENGTH: 22	
91 <212> TYPE: DNA	
92 <213> ORGANISM: primer	
93 <400> SEQUENCE: 12	22
94 cctgatctcg cccaccact cc	
97 <211> LENGTH: 30	
98 <212> TYPE: DNA	
99 <213> ORGANISM: primer	
100 <400> SEQUENCE: 13	30
101 cccgagatct cgagtcattt gatctocacc	
103 <210> SEQ ID NO: 14	
104 <211> LENGTH: 27	
105 <212> TYPE: DNA	
106 <213> ORGANISM: primer	
107 <400> SEQUENCE: 14	27
108 ggagatctcc acagtccttg aacacac	
110 <210> SEQ ID NO: 15	
111 <211> LENGTH: 21	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/991,470

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Input Set : N:\Crif3\RULE60\09991470.raw

Output Set: N:\CRF3\12182001\I991470.raw

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112 <212> TYPE: DNA
113 <213> ORGANISM: primer
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119 <212> TYPE: DNA
120 <213> ORGANISM: primer
121 <400> SEQUENCE: 16
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126 <212> TYPE: DNA
127 <213> ORGANISM: primer
128 <400> SEQUENCE: 17
129      tgaagaaagc ttgccgccac catggag        27
131 <210> SEQ ID NO: 18
132 <211> LENGTH: 29
133 <212> TYPE: DNA
134 <213> ORGANISM: primer
135 <400> SEQUENCE: 18
136      gcatccgctc gtttgatctc caccttggt      29
138 <210> SEQ ID NO: 19
139 <211> LENGTH: 38
140 <212> TYPE: DNA
141 <213> ORGANISM: primer
142 <400> SEQUENCE: 19
143      cggaattcga gcggatgctg caccaactgt atcgatct 38
145 <210> SEQ ID NO: 20
146 <211> LENGTH: 40
147 <212> TYPE: DNA
148 <213> ORGANISM: primer
149 <400> SEQUENCE: 20
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152 <210> SEQ ID NO: 21
153 <212> TYPE: DNA
155 <213> ORGANISM: primer
156 <400> SEQUENCE: 21
157      tgagctcacg gtcaccaggg t                21
159 <210> SEQ ID NO: 22
160 <211> LENGTH: 369
161 <212> TYPE: DNA
162 <213> ORGANISM: human/murine
163 <220> FEATURE:
164 <221> NAME/KEY: CDS
165 <222> LOCATION: (1)...(366)
166 <400> SEQUENCE: 22
167      cag gtg cag ctg gtg cag agc ggc gcc gag gtg aag aag ccc ggc gcc 48

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/991,470

DATE: 12/18/2001

TIME: 16:53:39

Input Set : N:\Crif3\RULE66\09991470.raw

Output Set: N:\CRF3\12182001\I991470.raw

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168      Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
169          1          5          10          15
170      agc gtg aag gtg agc tgc aag gcc agc ggc tac acc ttc agc atg tac      96
171      Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Met Tyr
172          20          25          30
173      tgg ctg gag tgg gtg agg cag gcc ccc ggc cac ggc ctg gag tgg gtg      144
174      Trp Leu Glu Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Val
175          35          40          45
176      ggc gag atc agc ccc ggc acc ttc acc acc aac tac aac gag aag ttc      192
177      Gly Glu Ile Ser Pro Gly Thr Phe Thr Thr Asn Tyr Asn Glu Lys Phe
178          50          55          60
179      aag gcc agg gcc acc ttc acc gcc gac acc agc acc aac acc gcc tac      240
180      Lys Ala Arg Ala Thr Phe Thr Ala Asp Thr Ser Thr Asn Thr Ala Tyr
181          65          70          75          80
182      atg gag ctg agc agc ctg agg agc gag gac acc gcc gtg tac tac tgc      288
183      Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
184          85          90          95
185      gcc agg ttc agc cac ttc agc ggc agc aac tac gac tac ttc gac tac      336
186      Ala Arg Phe Ser His Phe Ser Gly Ser Asn Tyr Asp Tyr Phe Asp Tyr
187          100          105          110
188      tgg ggc cag ggc acc ctg gtg acc gtg agc tca      369
189      Trp Gly Gln Gly Thr Leu Val Thr Val Ser
190          115          120
192 <210> SEQ ID NO: 23
193 <211> LENGTH: 122
194 <212> TYPE: PRT
195 <213> ORGANISM: human/murine
196 <400> SEQUENCE: 23
197      Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
198          1          5          10          15
199      Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Met Tyr
200          20          25          30
201      Trp Leu Glu Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Val
202          35          40          45
203      Gly Glu Ile Ser Pro Gly Thr Phe Thr Thr Asn Tyr Asn Glu Lys Phe
204          50          55          60
206          65          70          75          80
207      Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
208          85          90          95
209      Ala Arg Phe Ser His Phe Ser Gly Ser Asn Tyr Asp Tyr Phe Asp Tyr
210          100          105          110
211      Trp Gly Gln Gly Thr Leu Val Thr Val Ser
212          115          120
214 <210> SEQ ID NO: 24
215 <211> LENGTH: 321
216 <212> TYPE: DNA
217 <213> ORGANISM: human/murine
218 <220> FEATURE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/991,470

DATE: 12/18/2001

TIME: 16:53:40

Input Set : N:\Crif3\RULE60\09991470.raw

Output Set: N:\CRF3\12182001\I991470.raw

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219 <221> NAME/KEY: CDS
220 <222> LOCATION: (1)...(321)
221 <400> SEQUENCE: 24
222   gac atc ctg ctg acc cag agc ccc ggc acc ctg agc ctg agc ccc ggc      48
223   Asp Ile Leu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
224   1           5           10           15
225   gag agg gcc acc ctg agc tgc agg gcc agc cag agc atc ggc acc aac      96
226   Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Thr Asn
227           20           25           30
228   atc cac tgg tac cag cag aag ccc ggc cag gcc ccc agg ctg ctg atc      144
229   Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
230           35           40           45
231   aag tac gcc agc gag agc atc agc ggc atc ccc agc agg ttc agc ggc      192
232   Lys Tyr Ala Ser Glu Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
233           50           55           60
234   agc ggc agc ggc acc gac ttc acc ctg acc atc agc agg ctg gag ccc      240
235   Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
236   65           70           75           80
237   gag gac ttc gcc atg tac tac tgc cag cag agc gac agc tgg ccc acc      288
238   Glu Asp Phe Ala Met Tyr Tyr Cys Gln Gln Ser Asp Ser Trp Pro Thr
239           85           90           95
240   acc ttc ggc cag ggc acc aag gtg gag atc aaa      321
241   Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
242           100           105
244 <210> SEQ ID NO: 25
245 <211> LENGTH: 107
246 <212> TYPE: PRT
247 <213> ORGANISM: human/murine
248 <400> SEQUENCE: 25
249   Asp Ile Leu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
250   1           5           10           15
251   Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Thr Asn
252           20           25           30
253   Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
254           35           40           45
255
256
257   Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
258   65           70           75           80
259   Glu Asp Phe Ala Met Tyr Tyr Cys Gln Gln Ser Asp Ser Trp Pro Thr
260           85           90           95
261   Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
262           100           105
264 <210> SEQ ID NO: 26
265 <211> LENGTH: 735
266 <212> TYPE: DNA
267 <213> ORGANISM: human/murine
268 <220> FEATURE:
269 <221> NAME/KEY: CDS

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/991,470

DATE: 12/18/2001

TIME: 16:53:41

Input Set : N:\Crf3\RULE60\09991470.raw

Output Set: N:\CRF3\12182001\I991470.raw

L:7 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD